

Joint Training Federation Prototype (JTFp) Final Out-Briefing

Presented to:

15th AMG Meeting

10 October 1996

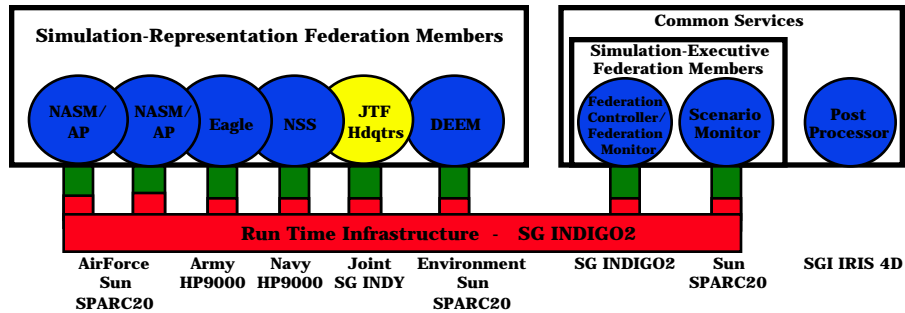
**William F. Waite
AEgis Research Corporation
6703 Odyssey Drive, Huntsville, AL
(205) 922-0802/0904 FAX
BWaite@AEgisRC.com**

**LT Billy Hudgins
JSIMS/JPO
12249 Science Drive, Ste. 260
(407) 384-5541 / 5599 FAX
hudginsb@jsims.mil**

OUTLINE

- ➔ • JTFp Summary Description
- JTFp Contribution to HLA
- JTFp Lessons-Learned

JTFp Federation Summary Description

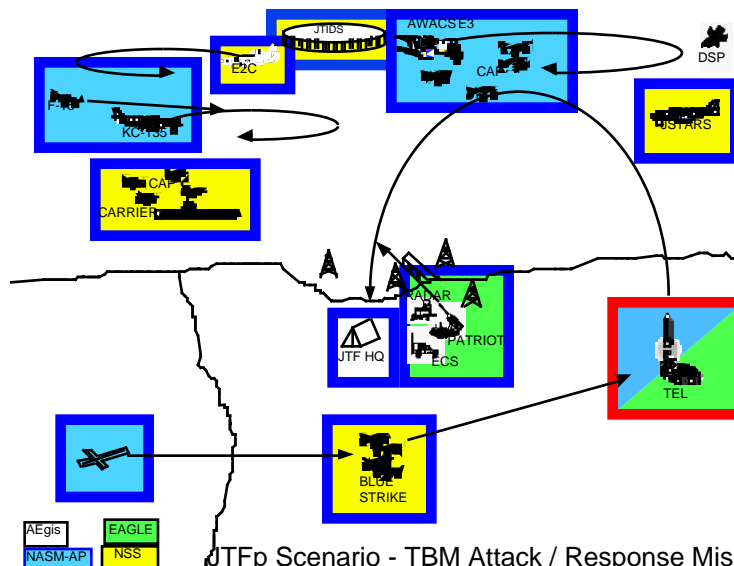


Dependencies Legend



CLASS STRUCTURE TABLE

- **PLAYER**
 - Air Player
 - Ground Player
 - Afloat Player
- **DISCRETE ENTITY**
 - Ballistic Missile
 - Aircraft
 - Fixed Site
 - Mobile Ground Player
 - Afloat player
- **AGGREGATE ENTITY**
 - Flight
 - Aggregate Player
- **DEAD-RECKONED MOVER**
 - Air Player
 - Mobile Ground Player
 - Aggregate Ground Player
 - Afloat Player
- **NON MOVER**
 - Fixed Site
- **ENVIRONMENT**
 - Atmosphere
 - Surface Cover
 - Open Water
- **FEDERATION STATUS**



JTFp CHARACTERISTICS

- JTFp TEAM

JSIMS	JTF C2, Admin.	JTF-HQ
ESC	Air Warfare	NASM/AP
STRICOM	Land Warfare	EAGLE
SPAWAR	Naval Warfare	NSS
Argonne	Environment	DEEM
AEGIS RC	System Integ.	

• OBJECTIVES

Support HLA Definition / Evaluation

Inform AMG

Demo. HLA feasibility for Joint Training

• STRATEGIES

**Issues-Driven Enterprise
Deliberate Systems Engineering
Federation Development
...HLA Evaluation Experiment
Integration Agent / Local Net /
Open Site**

• RESULTS

**HLA Baseline Suitable
Training Issues Tractable
Contributions to HLA
Infrastructure
...Tools, Process, Technology**

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JTFp Contribution to HLA

- **HLA TECHNOLOGY**
 - Affected OMT, I/F Specification, Rules
- **TRAINING-ISSUE RESOLUTION**
 - Causal, repeatable, adjustable time management
 - Man-in-the-Loop and C2 representation
- **HLA COMPONENTS, PROCESS, TOOLS**
 - Federation Controller, Monitor
 - Systems Eng., Scenario- and System-Specification
 - FOM Development, JTFp system integ., test, and use
 - FOM Development Tool
- **HLA EVALUATION**
 - JTFp Devel. / Eval. trials completed as planned
 - Affected AMG evaluation of HLA

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JTFp Lessons-Learned

- **HLA SPECIFICATION**
 - OMT modifications desirable (inheritance, methods...)
- **JOINT TRAINING ISSUES**
 - Strong appetite for TM, DDM, and execution efficiency
 - Man-in-the-Loop and C2 rep. are direct iff OOD
- **HLA TOOLS, COMPONENTS, PROCESS**
 - HLA federation-devel. process efficiency will vary
 - Deliberate process / practices are important (scenarios, OOD, FOM, integration, VV&A...)
 - Tools are desirable and feasible iff rqmts. avail.
 - Common, reusable SW and components are possible
 - Shared OOA/D concepts and semantics matter most
- **HLA EVALUATION**
 - HLA works...and it's easier than expected